

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/489,515	515 01/21/2000		Surya Prakash	06618-408001	5938
20985	7590	10/06/2005		EXAMINER	
FISH & RIC		•	MERCADO, JULIAN A		
12390 EL CAMINO REAL SAN DIEGO, CA 92130-2081				ART UNIT	PAPER NUMBER
3	,			1745	
				DATE MAILED: 10/06/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			W
	Application No.	Applicant(s)	
	09/489,515	PRAKASH ET AL.	
Office Action Summary	Examiner	Art Unit	
	Julian Mercado	1745	
The MAILING DATE of this communication of the co	appears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REL WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.1.136(a). In no event, however, may a niod will apply and will expire SIX (6) MO atute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communicatio BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 13	3 July 2005.		
	his action is non-final.		
3) Since this application is in condition for allo	wance except for formal ma	tters, prosecution as to the merits i	s
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims		•	
. 4)⊠ Claim(s) <u>19-27 and 29-31</u> is/are pending in	the application.		
4a) Of the above claim(s) is/are without			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>19-27 and 29-31</u> is/are rejected.	·		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner.		•
10) The drawing(s) filed on is/are: a) = a	accepted or b) objected to	by the Examiner.	İ
Applicant may not request that any objection to	the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the cor	•		(d).
11) The oath or declaration is objected to by the	Examiner. Note the attach	ed Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
 Certified copies of the priority docum 			
2. Certified copies of the priority docum			
3. Copies of the certified copies of the p		n received in this National Stage	
application from the International But	•	t received	
* See the attached detailed Office action for a	list of the certified copies fic	received.	
Attachment(s)			
Notice of References Cited (PTO-892)		Summary (PTO-413) o(s)/Mail Date	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB 	/08) 5) Notice of	Informal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:	·	

Application/Control Number: 09/489,515

Art Unit: 1745

DETAILED ACTION

Remarks

This Office action is responsive to applicant's amendment filed July 13, 2005.

This Office action maintains the prior ground(s) of rejection set forth in the prior Office action, but is made NON-FINAL to allow correction of the statutory grounds for rejection of claims 24 and 31.

Claims 19-27 and 29-31 are pending.

Claim Rejections - 35 USC § 102 and 103

The rejection of claim 18 under 35 U.S.C. 102(b) based on Narayanan et al. is deemed moot in view of this claim being canceled.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

Application/Control Number: 09/489,515

Art Unit: 1745

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 26 is rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Prakash et al. (U.S. Pat. 6,444,343 B1)

The rejection is maintained for the reasons of record. The examiner once again notes that claim 26 recites a product-by-process limitation of the providing, applying and bonding of a catalyst ink. For the reasons set forth in the prior Office action, these process limitations have not given patentable weight as the limitations do not give breadth or scope to the product claim.

Applicant's arguments have fully considered, however they are not found persuasive. Applicant submits that Prakash et al. do not teach a catalyst ink containing polyvinylidene fluoride. This argument is not persuasive as it is maintained that the fuel cell taught by Prakash et al. is the same as that claimed by applicant insofar as being a fuel cell comprising a catalyzed membrane electrode assembly with a PSSA/PVDF membrane. Applicant's arguments do not assert any differences that may be obtained by providing a catalyst ink containing polyvinylidene fluoride, especially in view of the membrane in Prakash et al. being comprised of PVDF, i.e. polyvinylidene fluoride itself.

Claims 19, 20 and 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grot et al. (U.S. Pat. 5,919,583) in view of Fleisher et al. (U.S. Pat. 5,643,689).

The rejection is maintained for the reasons of record. The examiner maintains that the skilled artisan would find obvious to employ a PSSA-PVDF membrane based on Grot et al.

Application/Control Number: 09/489,515

Art Unit: 1745

specifically teaching that the binder is preferably *the same polymer* as in the membrane, while Fleisher et al. teaches a PVDF polymer combined with a PSSA polymer. (emphasis added)

Applicant's arguments have been fully considered, however they are not found persuasive. Applicant submits that the membrane taught in Fleisher et al. is different than the instant PVDF-PSSA membrane in that the instant membrane is alleged to contain PSSA crosslinked within a PVDF matrix. As applicant did not provide page and line citations to the specification in support of this feature, a review of the specification appears to show that the claimed PSSA-PVDF is merely a *composite* of PSSA and PVDF. (emphasis added, see specification on page 1) Notwithstanding the apparent lack of support for this feature, crosslinking of PSSA with PVDF is also noted to be outside the scope of the present claims.

Claims 21, 22, 29 and 30 are rejected under 35 U.S.C. l03(a) as being unpatentable over Grot et al. in view of Fleisher et al., and further in view of Cabasso et al. (U.S. Pat. 5,783,325).

Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Grot et al. in view of Fleisher et al., and further in view of Kindler (U.S. Pat. 5,992,008).

Claims 24 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grot et al. in view of Fleisher et al., and further in view of Lawrance et al. (U.S. Pat. 4,272,353).

Arguments against Cabasso et al., Kindler and Lawrance et al. appear to be directed to these references failing to remedy alleged differences between Grot et al. in view of Fleisher et al. and the present claims. However, as Grot et al. in view of Fleisher et al. is maintained for the reasons discussed above, the rejection(s) further in view of Cabasso et al., Kindler or Lawrance et al. is subsequently maintained for the detailed reasons discussed in the previous Office action.

Application/Control Number: 09/489,515 Page 5

Art Unit: 1745

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian Mercado whose telephone number is (571) 272-1289. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

PATRICK JOSEPH RY
UPERVISORY PATENT EX. 77